

AN - 1995-339345 [44]  
TI - Blow moulded vessels, esp. containers for drugs, with acid resistance - formed from (co)polymer obtd. from (poly)cyclic olefin by ring-opening polymerisation or copolymerisation with ethylene  
AB - J07231928 Novel vessels for drugs are made by blow moulding from cyclic olefins selected from (1) ring-opening polymers, copolymers, or their hydrogenated products, produced by polymerisation of cyclic olefins of formula (I) or (II), and (2) copolymers produced by addition copolymerisation of (I) or (II) with ethylene.  $n = 0$  or integer.  $R_1-R_{12} = H$ , halogen, or hydrocarbon gp.;  $R_9-R_{12}$  may together form a mono- or poly-cyclic gp. which may have a double bond. or  $R_9+R_{10}$  or  $R_{11} + R_{12}$  may form alkylidene.  $p = 0$  or 1;  $m, n' = 0, 1$  or 2;  $R'_1 - R'_{15} = H$ , halogen, aliphatic hydrocarbon gp., aromatic hydrocarbon gp. or alkoxy;  $R'_5$  (or  $R'_6$ ) and  $R'_9$  (or  $R'_7$ ) may be linked directly or via 1-3C alkylene.  
- USE - The vessels are esp. containers for drugs.  
- ADVANTAGE - The vessels have superior drug resistance, i.e. acid resistance, (no change observed in 20%  $H_2SO_4$  soln. at 23deg. C for 7 days), alkali resistance (no change in 20%  $NaOH$  aq. soln.) and resistance to boiling water (no change in boiling water for 24 hrs). The also have good mechanical strength partic. a resistance to mechanical shock.  
- (Dwg.0/1)  
IW - BLOW MOULD VESSEL CONTAINER DRUG ACID RESISTANCE FORMING CO POLYMER OBTAIN POLY CYCLIC OLEFIN RING OPEN POLYMERISE COPOLYMERISE ETHYLENE  
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DC - A17 A32 A92 B07 P33 Q32  
PA - (MITC ) MITSUI PETROCHEM IND CO LTD  
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